

REQUEST FOR APPROVAL

To: Howard Levenson
Assistant Director, Materials Management and Local Assistance Program

From: Brenda Smyth
Division Chief, Statewide Technical and Analytical Resources Division

Request Date: April 20, 2010

Decision Subject: Approval of Scope of Work and California State University Chico Research Foundation as Contractor for the Update of Life Cycle Cost Analysis of Asphalt Rubber and Cost Effectiveness Study for Terminal Blends Contract (Tire Recycling Management Fund, FY 2009/10)

Action By: May 30, 2010

Summary of Request:

Staff requests approval of the Scope of Work (SOW) and California State University Chico Research Foundation as Contractor for the Update of Life Cycle Cost Analysis of Asphalt Rubber and Cost Effectiveness Study for Terminal Blends Contract.

Recommendation:

Staff recommends that CalRecycle enter into the contract with California State University Chico Research Foundation as the contractor using Fiscal Year (FY) 2009/10 funds allocated to Research on Highway Construction Applications Using Waste Tires in the Research section of the current (5th Edition) Five-Year Tire Plan. This contract will be funded at \$60,000 for the tasks outlined in the attached Scope of Work.

Assistant Director Action:

On the basis of the information and analysis in this Request for Approval and the findings set out above, I hereby approve the contract with California State University Chico Research Foundation for the Update of Life Cycle Cost Analysis of Asphalt Rubber and Cost Effectiveness Study for Terminal Blends in an amount not to exceed sixty thousand dollars (\$60,000), subject to the availability of funds appropriated to this program.

Dated: 5/13/10

Howard Levenson

Howard Levenson
Assistant Director

Background Information, Analysis, and Findings

A previous life cycle cost analysis (LCCA) for asphalt rubber was done in 1999 by the Rubber Pavements Association (RPA). This LCCA is now out-of-date given the changes in asphalt prices due to the change in oil prices and the increase in the number of producers of asphalt rubber materials, among other issues. In addition, when the original LCCA was done, terminal blend materials were not included in the LCCA. For these reasons, an updated LCCA for asphalt rubber and a LCCA for terminal blends is needed. The LCCA will include an analysis of rubberized binder materials in spray applied (i.e., chip seal) applications. The LCCA will assist staff in outreach and promotion efforts for rubberized asphalt concrete (RAC).